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NEW YORK, NY, UNITED STATES, November 26, 2025 /EINPresswire.com/ -- Senior Developer in Manufacturing Execution Systems (MES) and automation Satish Kumar Nalluri is being given national recognition of his input in the life science and health manufacturing scene in America. Having more than 9 years of specialized experience, Nalluri will play a vital role in enhancing the resiliency of the biotechnology manufacturing in the country by means of advanced MES architecture, AI Integration, Automation Engineering and Cloud enabled Production systems.

His effort at Thermo Fisher Scientific spearheading transformative initiatives in genomics, proteomics and molecular diagnostics is helping directly the cause of the rapid development and introduction of key products of public health that are central to the national diagnostic preparedness and precision medicine competencies. His advancements to MES systems such as AI-based anomaly detection, workflow automation, and scalable CI/CD systems have led to higher reliability in manufacturing, a 40 percent decrease in incident response time, a 30 percent decrease in deployment time, and hundreds of hours of engineering time per year saved. These advances lead to the development of kits of genomic sequencing, molecule diagnostics consumables and proteomics assay systems that are significantly important in healthcare, research, and emergency response teams in the U.S.

Thermo Fisher is not the only place that Nalluri has left a mark in this country. His works at the major healthcare manufacturers, including Cepheid, Boston Scientific, Johnson and Johnson



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Vision Care, and Corning have enhanced the reliability of medical devices and the ability to cope with pandemics, telecommunications infrastructure and adherence to FDA and ISO laws in the

U.S. His MES was also employed as an engineer at Cepheid during the Covid 19 pandemic in which the products of his MES were directly involved in the mass production of GeneXpert diagnostic cartridges, which helped provide testing in the country at a more expeditious rate. His inventions at Boston Scientific enhanced the production of cardiovascular devices that contribute to saving of lives throughout the country and his efforts of migrating digital products at Corning assisted in updating the optical fibre systems that are crucial to the telecommunications backbone and semiconductors application of America. Nalluri, a member of the International Society of Automation (ISA), Association of manufacturing excellence (AME) and International Society of Pharmaceutical Engineering (ISPE), has made his contribution to the larger national goals of digital transformation, manufacturing excellence and supply chain modernization.

Nalluri has been working on technologies that are beneficial to the entire country: enhancing national health preparedness, providing fast diagnostics, and advancing precision medicine research, enhancing supply chain resiliency and increasing the competitiveness of the U.S. biotechnology sector. His AI-powered MES systems allow American manufacturing plants to operate more effectively, safely and of superior quality and eventually influence the patient safety, speed up the innovation and contribute to the healthcare performance throughout the nation.

Having a record of innovation and peer-reviewed works and leadership in MES transformation, Satish Kumar Nalluri remains central to the transformation of the life sciences ecosystem of America and how to create technologies that leave an impact on millions of Americans across the United States.

Henry Miller

PR

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